IN THE CLAIMS:

Please amend claims 1-20 as follows:

1. (Currently amended) A method of restoring a video, the method comprising the steps of:

identifying whether a scene on an image sequence is changed;

detecting whether a 3:2 pull-down mode exists in the image sequence;

generating a first interpolated frame by interleaving a field to be interpolated and at least two adjacent fields with each other when there is the 3:2 pull-down mode;

generating a second interpolated frame by de-interlacing the field to be interpolated and the- at least two adjacent fields with each other when there is not the 3:2 pull-down mode; and

outputting- selecting one of the first and second interpolated frames-selectively based upon whether a 3:2 pull-down mode was detected.

- 2. (Currently amended) The method of claim 1, wherein the step of identifying whether a scene on an image sequence is changed is carried out by detecting motions between the adjacent fields.
- 3. (Currently amended) The method of claim 1, wherein the first interpolated frame is <u>outputted</u> <u>selected</u> when the 3:2 pull-down mode exists and the second interpolated frame is <u>outputted</u> <u>selected</u> when the 3:2 pull-down mode does not exist.
- 4. (Currently amended) The method of claim 1, wherein the field to be interpolated is comprises a current field, and wherein the at least two adjacent fields are comprise a previous field and a future field.
- 5. (Currently amended) The method of claim 1, wherein the 3:2 pull-down mode is detected by comparing a motion count value between the <u>a</u> previous <u>field</u> and <u>at least one</u> future fields to a predetermined threshold value.
- 6. (Currently amended) The method of claim 5, wherein the motion count value is attained determined by counting a portion part, where a motion between the previous <u>field</u> and the at least one future fields is detected, over an entire-screen image.

7. (Currently amended) The method of claim 1, the step of wherein detecting whether a 3:2 pull-down mode exists, comprising the steps of comprises:

identifying whether the current field is equal to the <u>a</u> previous field by analyzing a video input signal and outputting a corresponding identification signal;

ANDing the identification signal with an output signal of a multiplexer;

outputting a first control signal for controlling an operation of the multiplexer in accordance with a field of the video input signal;

recording an ANDing- storing the ANDed values in order by upon receiving the first control signal;

selecting the <u>recorded</u> <u>stored</u> value<u>s</u> in order in accordance with the first control signal;

identifying whether the recorded values is are equal to a recorded values of a previous sequence;

counting a number of occurrences that the recorded stored values is are equal to that those of the previous sequence;

comparing the counted $\frac{1}{2}$ number of occurrences to $\frac{1}{2}$ predetermined threshold value; and

outputting a second control signal by referring according to the comparison result and a scene transition detecting signal.

8. (Currently amended) An apparatus for restoring a video, the apparatus comprising:

a scene transition detecting unit outputting a scene transition detecting signal by adapted to detecting a motion of image from field data;

a 3:2 pull-down mode detecting unit <u>adapted to</u> detecting whether a 3:2 pull-down mode exists in the field data and outputting a first control signal on the basis of a corresponding-the 3:2 pull-down mode detection result and the scene transition detecting-signal result;

a field interleaver generating adapted to generate a first interpolated frame by interleaving the field data with data from at least two adjacent fields by upon receiving the first control signal when the 3:2 pull-down mode is detected;

a de-interlacer generating adapted to generate a second interpolated frame by de-interlacing the field data with data from at least two adjacent fields in accordance with the first control signal when the 3:2 pull-down mode is not detected; and

a multiplexer selecting to output adapted to select one of the first interpolated frame or and the second interpolated frame in accordance with the first control signal.

- 9. (Currently amended) The apparatus of claim 8, wherein the multiplexer selects to output is adapted to select the first interpolated frame when the 3:2 pull-down mode is detected and to select the second interpolated frame when the 3:2 pull-down mode is not detected.
- 10. (Currently amended) The apparatus of claim 8, wherein the field data are outputted from a field data providing unit including comprising a plurality of field memories.
- 11. (Currently amended) The apparatus of claim 10, wherein a <u>the</u> plurality of the field memories include comprise three field memories connected in series.
- 12. (Currently amended) The apparatus of claim 8, wherein the field data are comprise image data of a current field, a previous fields, and an future field.
- 13. (Currently amended) The apparatus of claim 8, wherein the <u>scene transition</u> <u>detecting unit is further adapted to output a</u> scene transition detecting signal is <u>outputted</u> when a scene on an image sequence is changed.
- 14. (Currently amended) The apparatus of claim 8, wherein the 3:2 pull-down mode detecting unit detects the <u>a</u> 3:2 pull-down mode by comparing a motion count value between the <u>a</u> previous <u>field</u> and <u>at least one</u> future fields to a predetermined threshold value.
- 15. (Currently amended) The apparatus of claim 14, wherein the motion count value is attained determined by counting a portion part, where a motion between the previous field and the at least one future fields is detected, over an entire screen image.
- 16. (Currently amended) The apparatus of claim 8, wherein the 3:2 pull-down mode detecting unit-including comprises:

a same field identifier <u>adapted to</u> identifying whether the <u>a</u> current field is equal to the <u>a</u> previous field by analyzing a video input signal and outputting a corresponding identification signal;

an AND gate <u>adapted to ANDing</u> the identification signal with an output signal of the multiplexer;

a first counter <u>adapted to</u> outputting a second control signal so as to control a selective operation of the multiplexer;

field flags storing adapted to store an output value of the AND gate in order by upon receiving the second control signal;

the <u>miltiplexer-multiplexer adapted to</u> selecting output signals of the field flags in order in accordance with the second control signal and supplying the AND gate with the selected output signals;

a sequence identifying unit <u>adapted to</u> identifying whether a value recorded <u>stored</u> in the field flags is equal to a value recorded <u>stored</u> in the previous image sequence;

a second counter <u>adapted to</u> counting the number of times that the sequence identifying unit identifies the same <u>sequence</u>;

a comparator <u>adapted to comparing compare</u> a count value of the second counter to a predetermined threshold value; and

a field interleaving controller <u>adapted to</u> outputting the first control signal by referring <u>according</u> to a comparison result of the comparator and the scene transition detecting <u>signal result</u>.

17. (Currently amended) A method of restoring a video, the method comprising the steps of:

identifying whether a scene transition on an image sequence is changed by receiving consecutive field data and by detecting a quantity of a motion between adjacent fields;

detecting whether a 3:2 pull-down mode exists in the field data and generating a first interpolated frame by interleaving the field data with data from at least two adjacent fields on the basis of a corresponding the 3:2 pull-down mode detection result and a corresponding the scene transition result;

generating a second interpolated frame by de-interlacing the field data with data from at least two adjacent fields if at least one of a sequence outputted by consecutively detecting the 3:2 pull-down mode for each field is zero, the field to be interpolated is interleaved

with a field having no relation-with each other reciprocally, er and none of previously set-up output sequences is are detected; and

outputting_selecting one of the first and second interpolated frames-selectively.

- 18. (Currently amended) The method of claim 17, wherein the field data are comprise image data of a current field, a previous fields, and a future field.
- 19. (Currently amended) The method of claim 17, the step of wherein identifying whether a scene transition on an image sequence is changed, comprising the steps of comprises:

counting a part, where a-motion between the a current <u>field</u> and <u>at least one</u> previous fields is detected, over an entire-screen <u>image</u>;

counting a part, where a-motion between the current and <u>a</u> future fields is detected, over the entire-screen <u>image</u>; and

identifying whether the scene is changed by comparing the motion count values to each other.

20. (Currently amended) The method of claim 17, wherein the previously set-up output sequences includes comprise the five-digit combinations "10000", "01000", "00100", "00010", and "00001".